

Applicant: Newell, et al.  
Application/Control No.: 09/413,923  
Filing Date: 10/07/99  
For: Mercury-Free Metal Halide Arc Lamps

Art Unit: 2879  
Examiner Haynes, M.

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**REMARKS/ARGUMENTS**

Claims 1 and 3 have been amended to include the limitations of Claims 2 and 4, which have been cancelled. Additionally, the description of the arc vessel has been amended to recite that the ends are pinched-sealed.

As amended it is believed that the claims are clearly patentable under 35 U.S.C. §102(b) and that the rejection thereof as being anticipated by Dakin et al. is in error.

It is respectfully pointed out that, contrary to the Examiner's statement in the Office Action, Dakin et al. does not disclose fused silica, but, rather, discloses PCA (polycrystalline alumina) and fused quartz, decidedly different and more expensive materials that are quite difficult to work with, when compared to fused silica.

Accordingly, it is only the instant applicant's that have disclosed and taught that a mercury-free metal halide lamp having an aspect ratio of greater than 5 can be constructed of fused silica having pinched sealed ends.

In view of this amendment and these remarks it is believed that this application is in condition for immediate allowance and such action is earnestly solicited.

Respectfully submitted,



William H. McNeill

Reg. No. 24,426

For:  
OSRAM SYLVANIA Inc.  
100 Endicott Street  
Danvers, MA 01923

Tel.: (978) 750-2245

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Cancel Claims 2 and 4.

1. (Amended) A mercury-free, arc vessel constructed of fused silica having a pinched-seal at each end and having an aspect ratio greater than 5 and containing a fill comprised of iodides selected from the group consisting essentially of sodium, scandium, lithium, cesium and a buffer gas selected from the group consisting of xenon, argon and krypton.

3. (Amended) A mercury-free, metal halide lamp comprising; an outer envelope containing an atmosphere selected from the group consisting of vacuum and nitrogen; and an arc discharge vessel constructed of fused silica having a pinched-seal at each end and mounted therein; said vessel having an aspect ratio greater than 5 and containing a fill comprised of iodides selected from the group consisting of sodium, scandium, lithium or cesium and a buffer gas of from about 50 torr to 500 torr selected from the group consisting of xenon, argon and krypton.

Respectfully submitted,

  
William H. McNeill

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